

Fig. 1

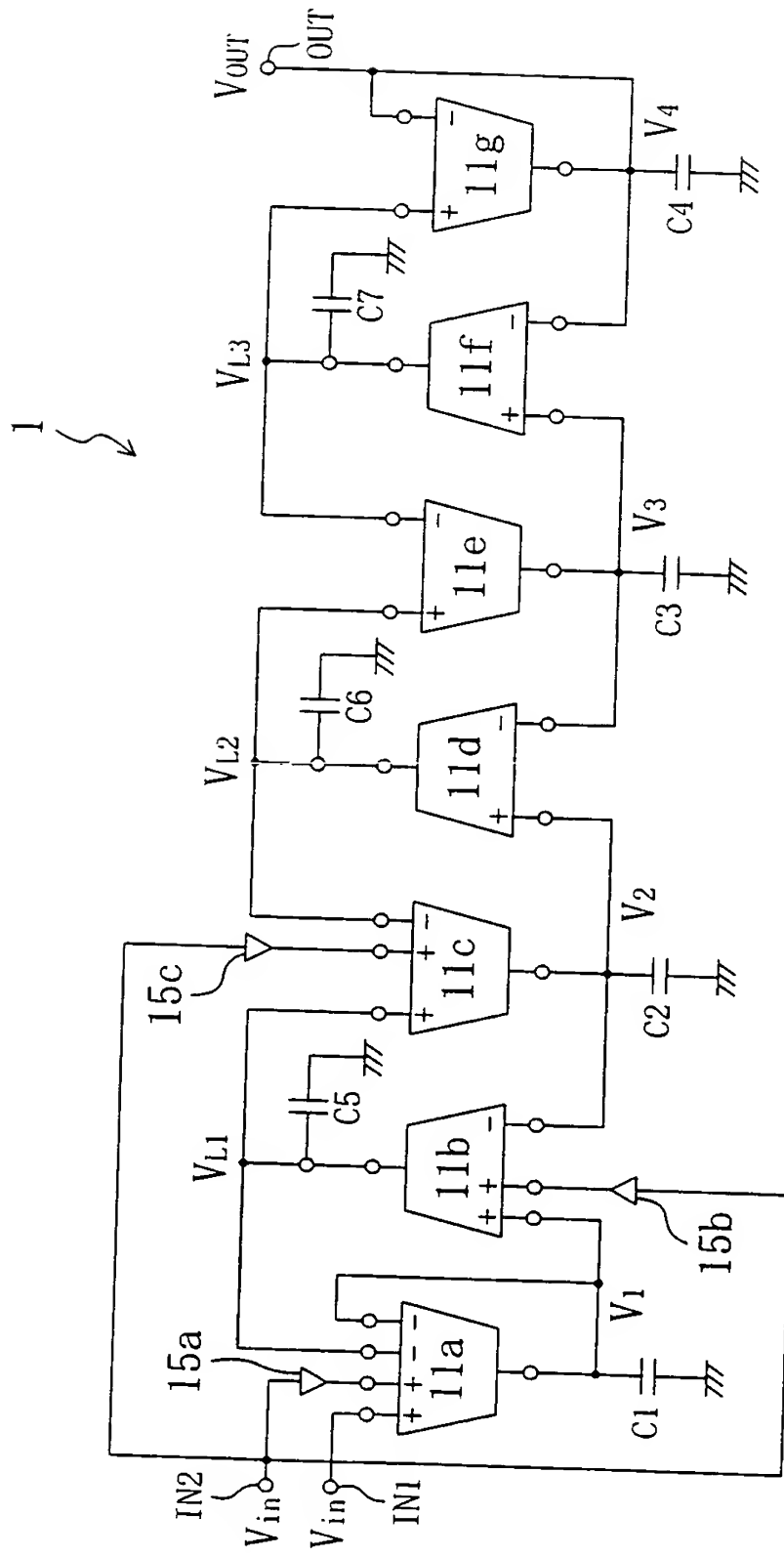


Fig. 2

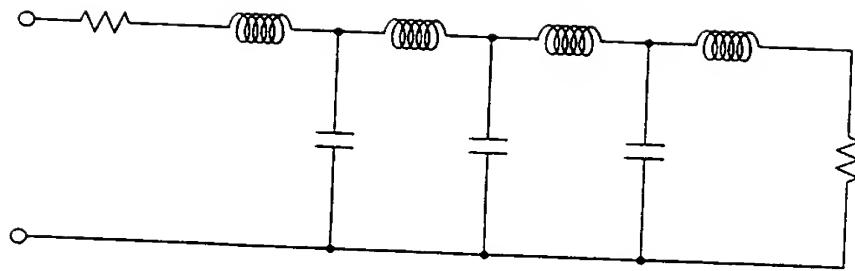


Fig. 3

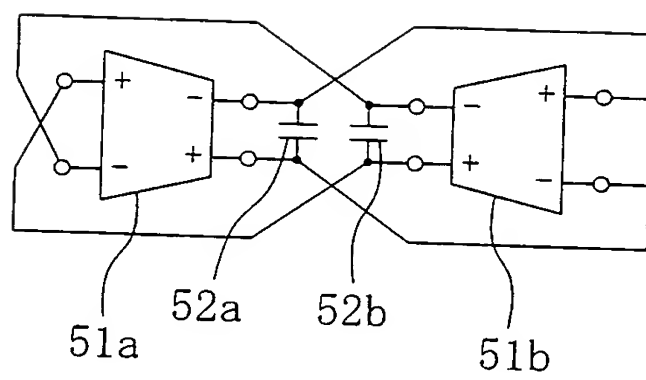


Fig. 4

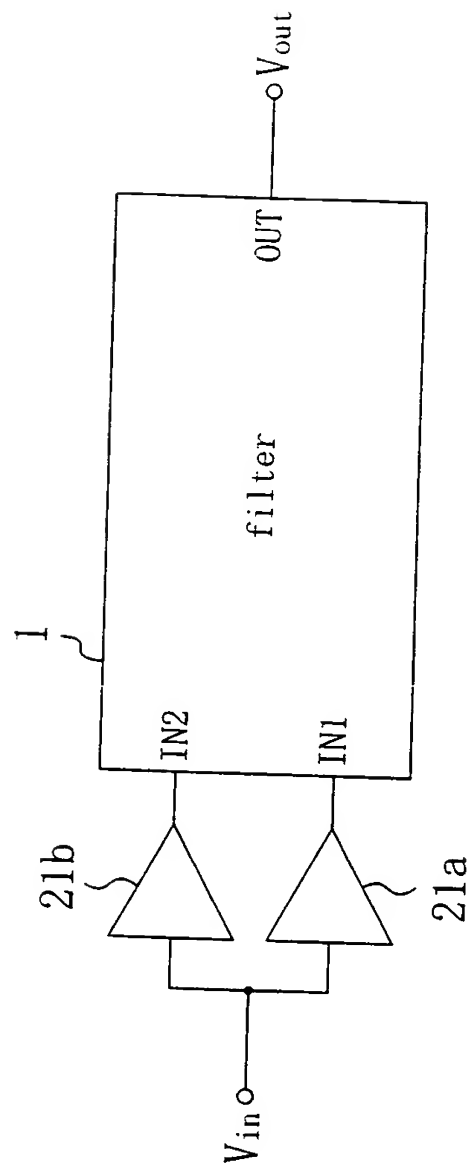


Fig. 5

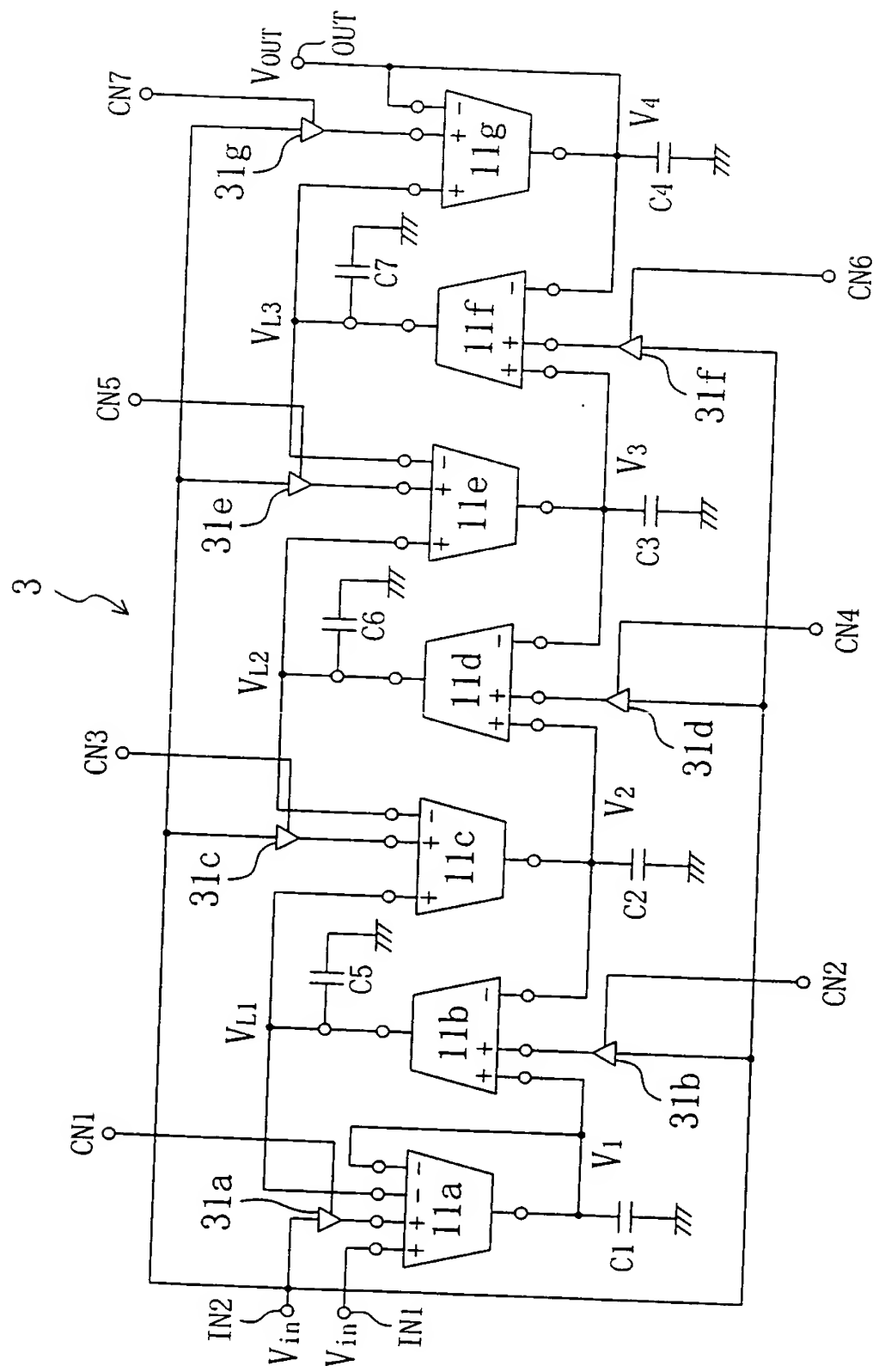


Fig. 6

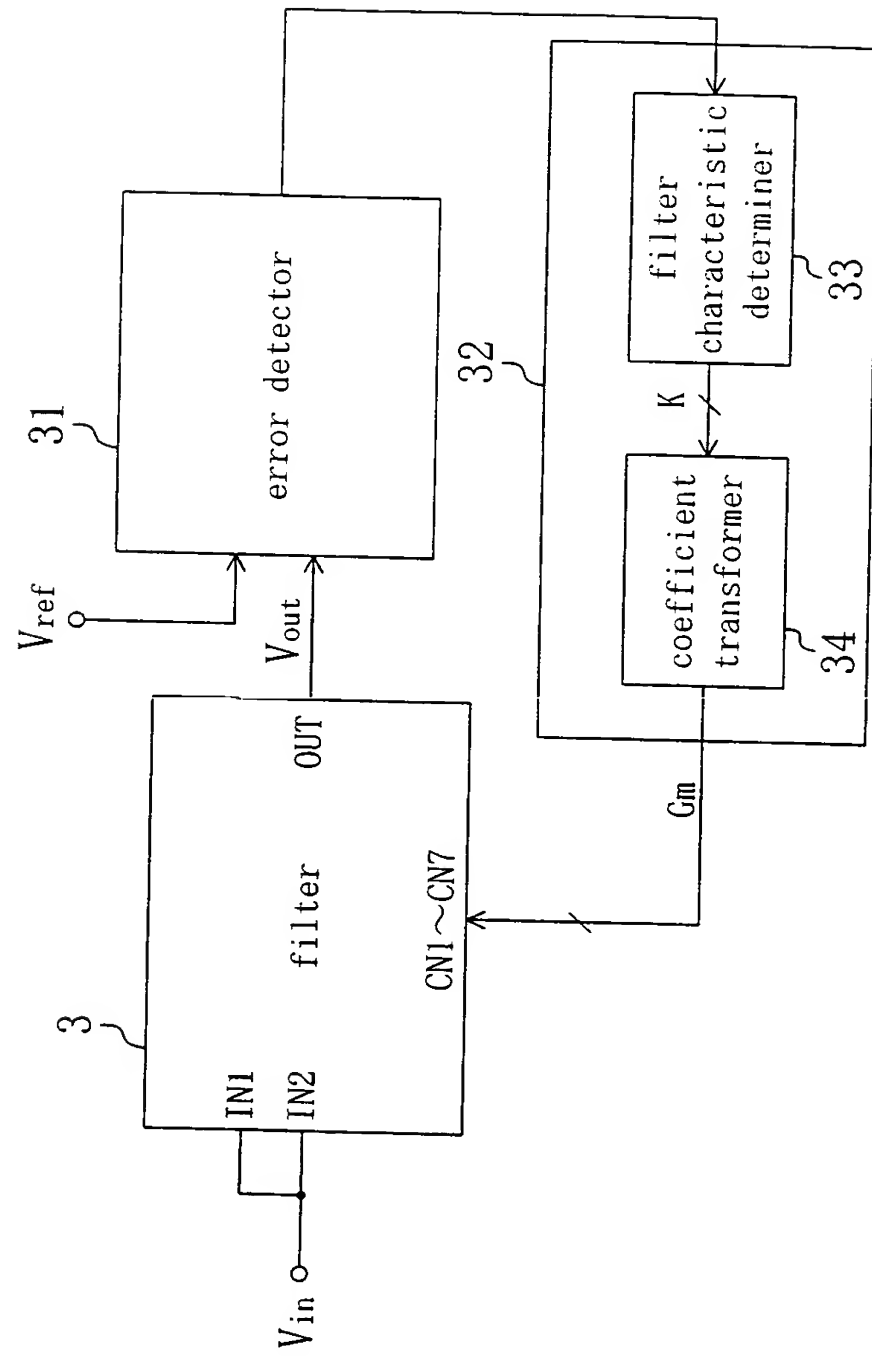


Fig. 7

$$\begin{aligned}
 H_n(s) = & \begin{pmatrix} \text{gm6} & \text{gm5} & \text{gm4} & \text{gm3} & \text{gm2} & \text{gm1} & \text{gm0} \end{pmatrix}^T \begin{pmatrix} \text{a66} & \text{a65} & \text{a64} & \text{a63} & \text{a62} & \text{a61} & \text{a60} \\ 0 & \text{a55} & \text{a54} & \text{a53} & \text{a52} & \text{a51} & \text{a50} \\ 0 & 0 & \text{a44} & \text{a43} & \text{a42} & \text{a41} & \text{a40} \\ 0 & 0 & 0 & \text{a33} & \text{a32} & \text{a31} & \text{a30} \\ 0 & 0 & 0 & 0 & \text{a22} & \text{a21} & \text{a20} \\ 0 & 0 & 0 & 0 & 0 & \text{a11} & \text{a10} \\ 0 & 0 & 0 & 0 & 0 & 0 & \text{a00} \end{pmatrix} \begin{pmatrix} s^6 \\ s^5 \\ s^4 \\ s^3 \\ s^2 \\ s^1 \\ s^0 \end{pmatrix} \\
 & \begin{matrix} \Downarrow \\ \text{Gm} \end{matrix} \qquad \begin{matrix} \Downarrow \\ \text{A} \end{matrix} \qquad \begin{matrix} \Downarrow \\ \text{S} \end{matrix}
 \end{aligned}$$

Fig. 9

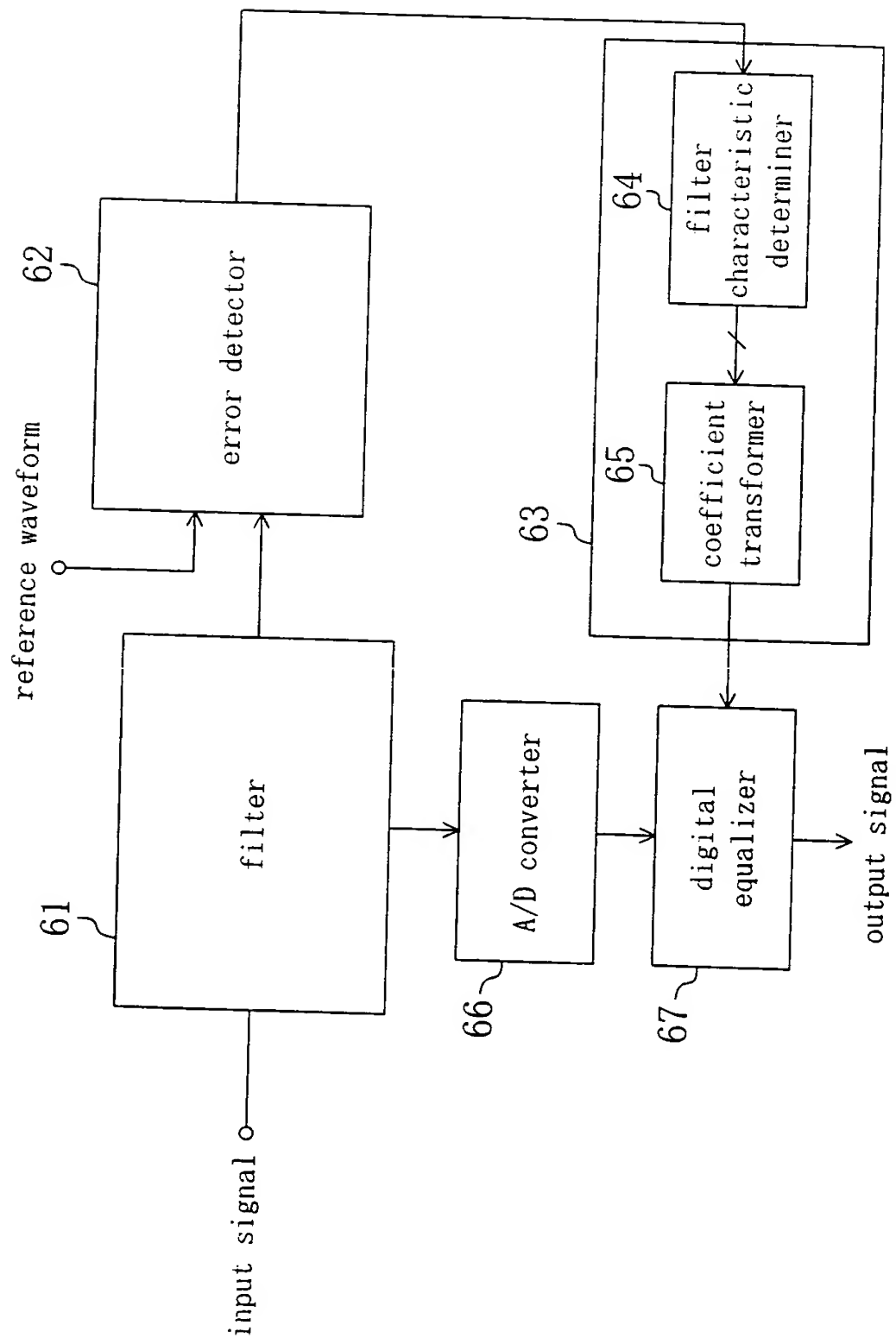


Fig. 10

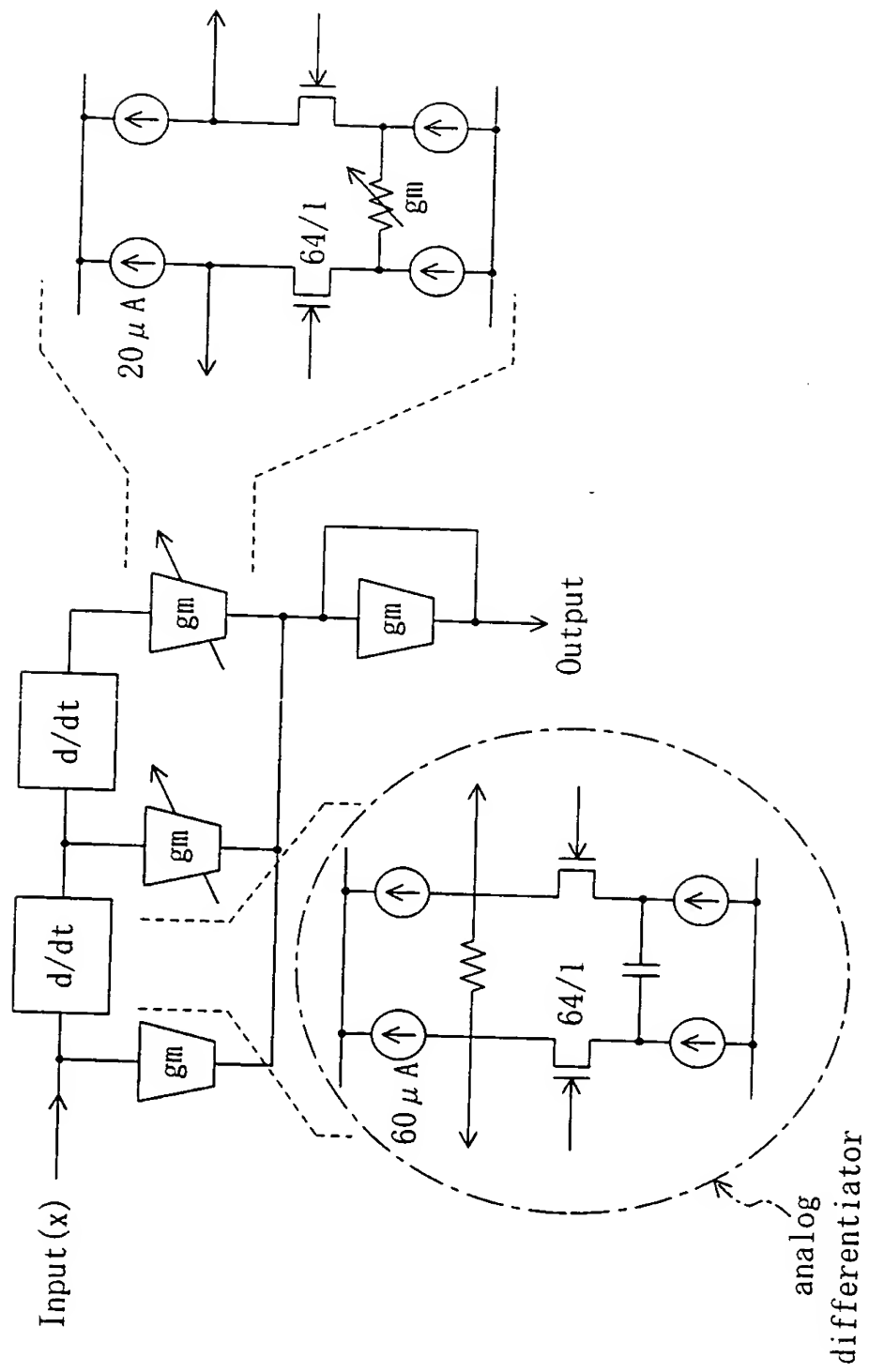


Fig. 11

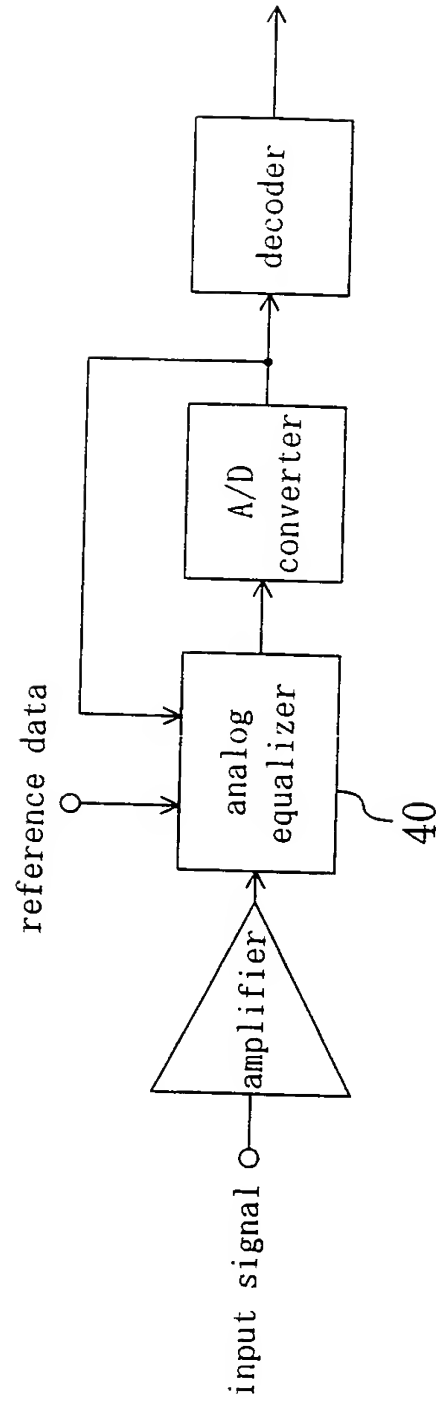


Fig. 12

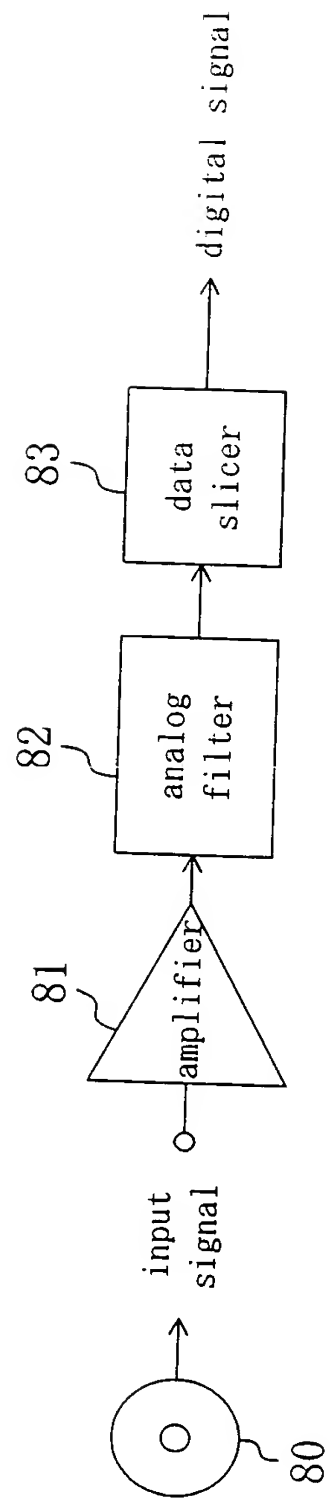


Fig. 13

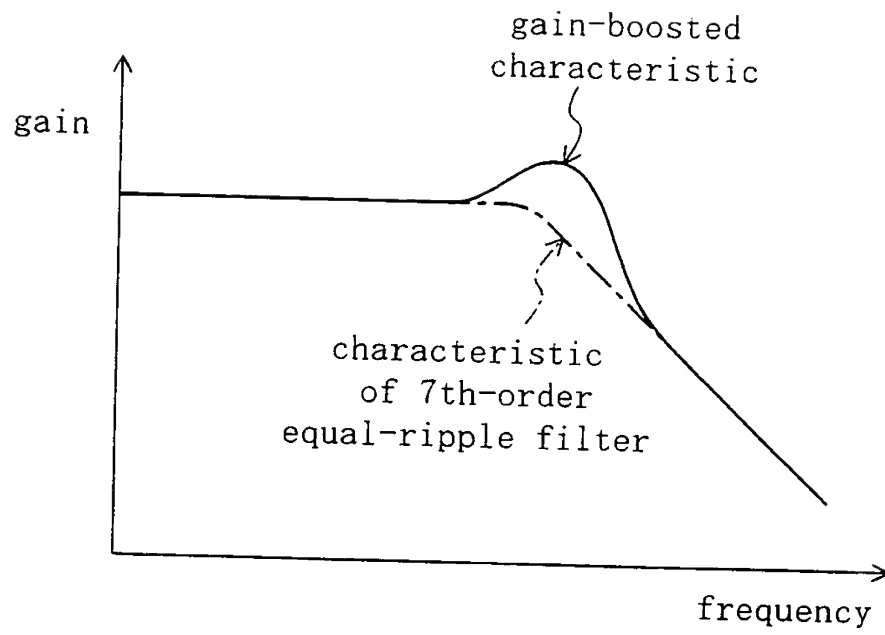


Fig. 14

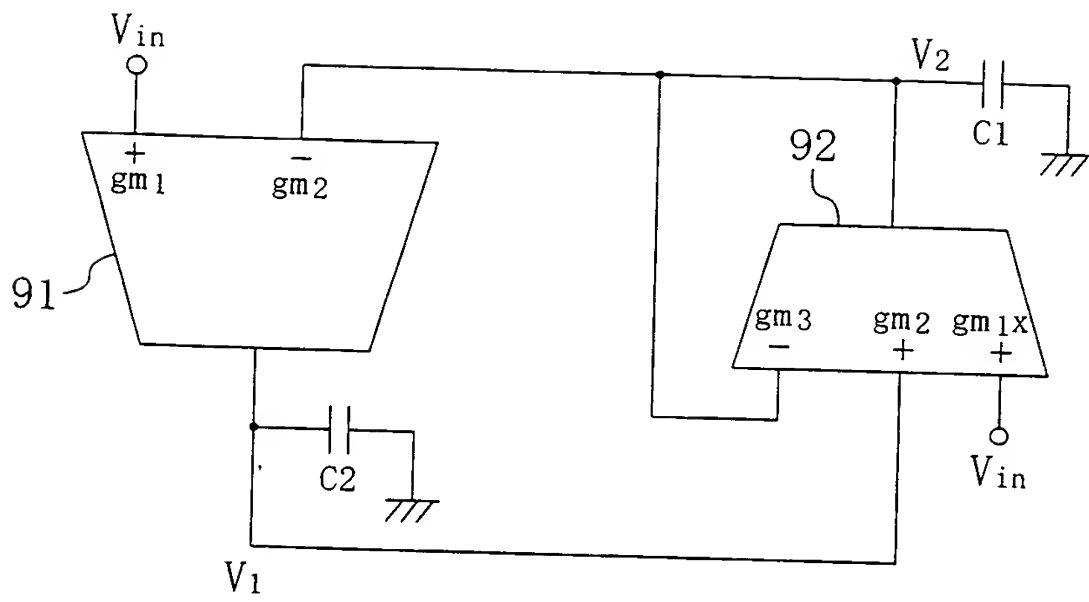


Fig. 15

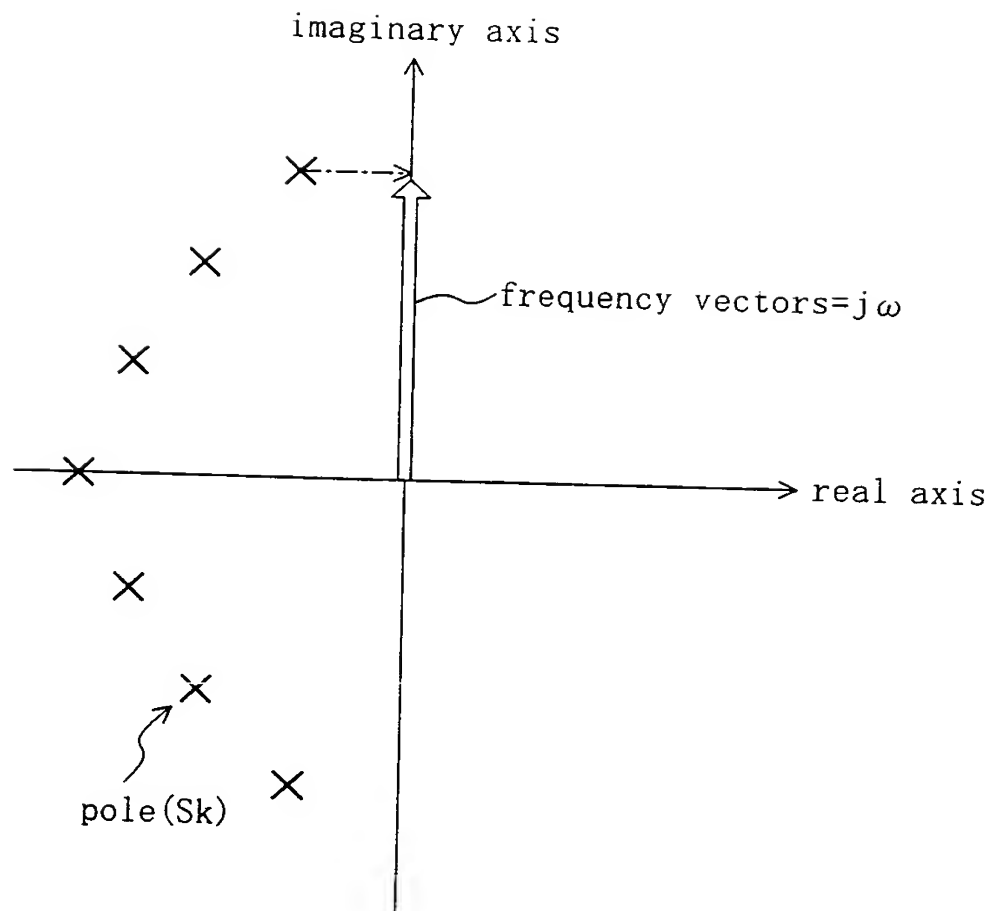
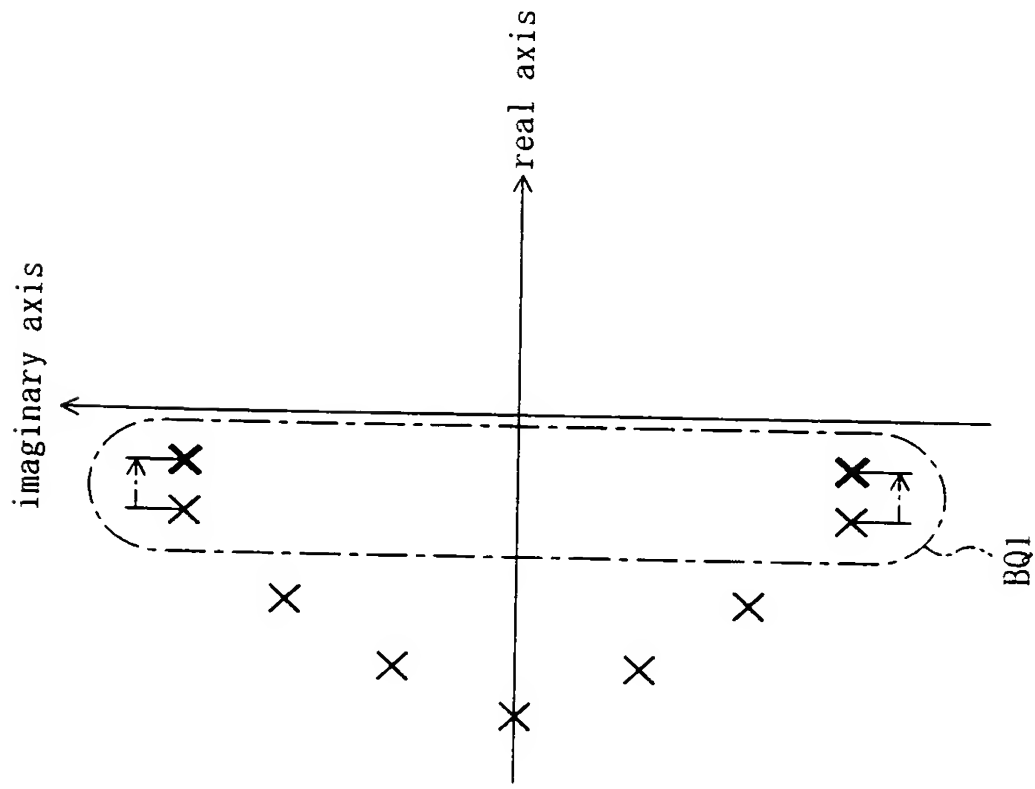
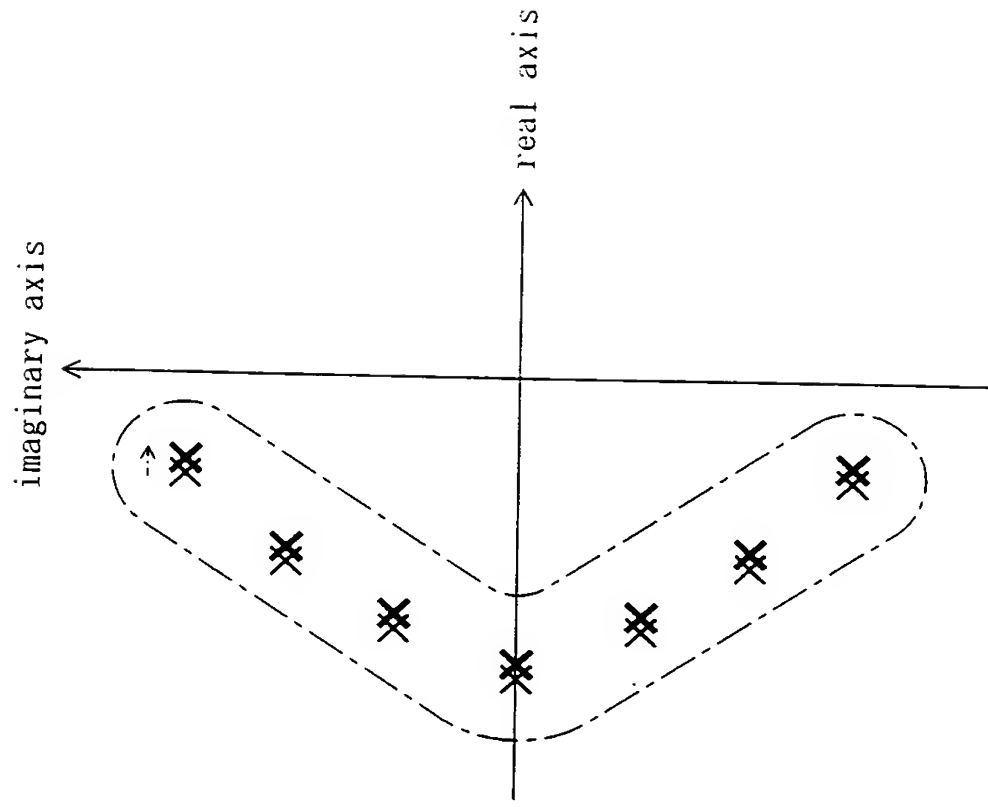


Fig. 16a



filter network of cascaded
biquadratic filters

Fig. 16b



ladder filter